

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415 International Specialists in the Environment

EPA Region 5 Records Ctr.

EXECUTIVE SUMMARY

TO: Colleen Hart, U.S. EPA

FROM: Elizabeth Gamauf, FIT

DATE: August 19, 1991

SUBJECT: Commonwealth Edison, Hammond, Indiana

IND016364507/F05-9104-055/FIN0739PA

The Commonwealth Edison site is located at 103rd Street and Lake Michign in Hammond, Indiana. The site is an active coal-burning power plant that supplies electricity to the city of Chicago. Lake Michigan borders the site on the east, and partially on the north and south sides. The site is bordered on the west by railroad tracks with spurs that lead onto the site. Access to the site is highly restricted. The site is surrounded by a fence, and a security guard is present.

Ecology and Environment, Inc., conducted an off-site reconnaissance inspection on June 4, 1991, and a large pile of fly ash was observed. According to the plant assistant manager, a Mr. Roach, all fly ash is transported to Chicago in railroad cars for disposal. He also stated that no fly ash has ever been treated on-site.

The site overlies a highly permeable subsurface with a high water table. Even though the fly ash is poorly contained, the possibility of groundwater contamination is slight because the site is paved.

There is a potential for the fly ash to migrate to surface water and fisheries primarily by air, and possibly by runoff. This could be a threat because the drinking water intake for Hammond is located approximately 1/2 mile downstream from the site. However, the probability of contamination is very low because the compounds and analytes generally present in fly ash (e.g., polyaromatic hydrocarbons, aluminum, calcium, iron, silicon) tend to be insoluble and cannot migrate in water. A

wetland is located approximately 1 mile from the site. However, because no direct overland migration pathway was observed, the probability of contamination is low.

There is a potential for overland runoff into Lake Michigan, which is adjacent to the site. This is a possibly threat because drinking water intakes for Hammond are located approximately 1/2 mile downstream from the site, and because Lake Michigan is used for recreational purposes. However, because the compounds and analytes present in fly ash tend to be insoluble and cannot migrate easily in water, the probability of contamination of any intakes or fisheries is slight.

Because the pile of fly ash is uncontained, there is a high potential for air contamination from the fly ash. The 2,800 employees are at major risk, because they are exposed to the contaminated air during work hours.



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MEMORANDUM

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On June 4, 1991, Ecology and Environment, Inc., Field Investigation Team (FIT) conducted an off-site reconnaissance inspection of the Commonwealth Edison site in Hammond, Indiana. A large, uncovered pile of fly ash was observed. Because the fly ash was not covered, there is a high potential for TCL compounds and TAL analytes to become windblown and to affect nearby residents. The 2,800 employees on-site could also be affected.

FIT recommends that the Commonwealth Edison site proceed to the screening site inspection level with medium priority because of the large population that could be exposed to windblown fly ash particulate. Air monitoring should be conducted to determine the extent of airborne fly ash particulate.

7218:9

PA Scoresheets

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	CENCLE DENTIFICATION NUMBER
STATE	STE MUMBER INDOING SUNGENING

	SITE LO			
TE NAME: Legal, common or descriptive name of	eite			
Commenciality	Edison			
REET ADDRESS, ROUTE or SPECIFIC LOCATION	IDENTIFIER			
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Writing ad			TATE ZIP COC	
CORDINATES: LATITUDE and LONGITUDE	A - 1	Ţ	OWNSHIP, RANGE	E, and SECTION
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WWER ADDRESS		OPERATOR A		2 (V . ()
1 First Water with	clasa			
W Chicago		ατν		
TATE ZIP COOF TELEPHON	€	STATE	ZIP CODE	TELEPHONE
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TYPE OF OWNERSH			OWNER/OPER	MTOR NOTIFICATION ON FILE
D PRIVATE	NONE CERCIA 103 C, UNCONTROLLED WASTE SITE DATE:			
D STATE				
COUNTY				
OTHER:		D R	CRA 3001	
O NOT SPECIFIED		1	DATE:	
	 			
		_1		
	•			
SITE STATUS	YEARS O	F OPERATION		APPROXIMATE SIZE OF SITE
<u></u>				APPROXIMATE SIZE OF SITE
ACTIVE .	BEGINNING YEAR			
<u> </u>				APPROXIMATE SIZE OF SITE
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Site Description and Operational History:

Commencently Treating a coal or many proces plant supply of the any of and only on the sine of a transfer to the appearance of the averager, and the assistance process and and to an armager, and the assistance process and an armager, and the assistance process are a character, and the assistance are a commenced to a complete the assistance and a commenced to a com

other transported and/or disposed of by contracted companys.

The accessibility of the site is highly restricted, the accessibility of the site is highly restricted, the area is surrounded by a serie, along with an on duty secondly succeed.

Hommonds sonface acted intake is approximately to mile from the site.

The years in operation one continue.

Probable Contaminants of Concern:

(Previous investigations; analytical data)

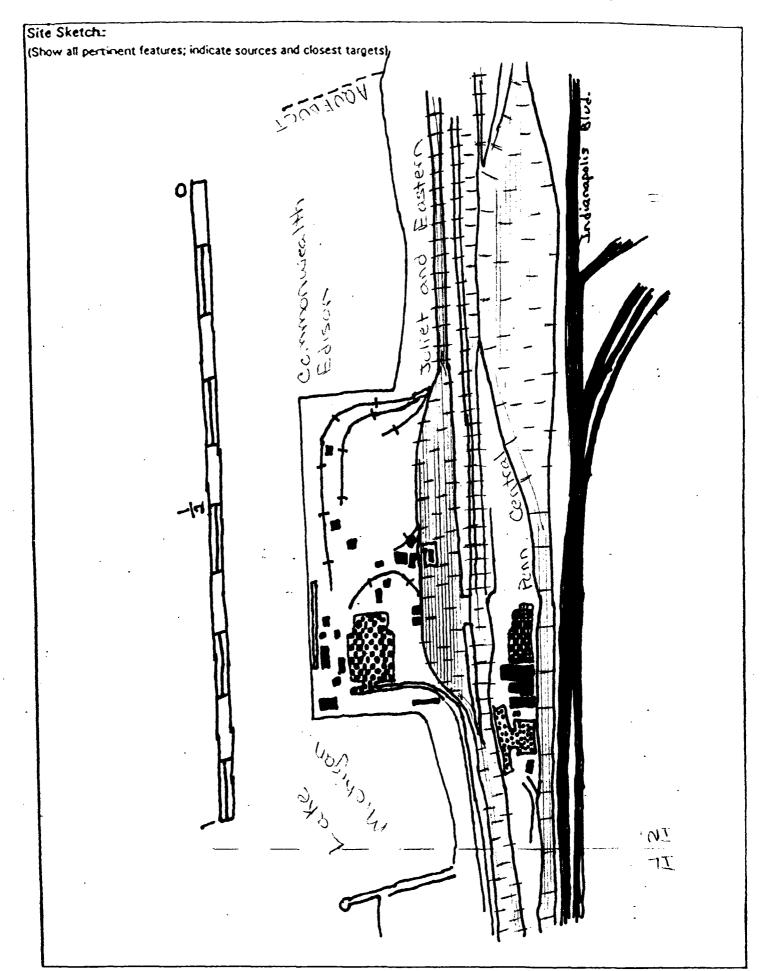
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GENERAL INFORMATION (continued)

Source	Descriptions:

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There were no tonto or drowns observed.

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Waste Characteristics (WC) Calculations:

(See PA Table 1, page 5)

There arec

Source Type: pile

Single Source:

>0.0 an 40 an acres

= 100 : 32

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PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

PA Table 1a: WC Scores for Single Source Sites and Formulas for Multiple Source Sites

τ		SINGLE	cores)	MULTIPLE SOURCE SITES	
- E R	SOURCE TYPE	WC = 18	WC = 32	WC = 100	Formula for Assigning Source WQ Values
	N/A	≤100 tbs	>100 to 10,000 lbs	> 10,000 fbe	16s + 1
* Assemble Eur #	N/A	≤500,000 fbs	>500,000 to 50 million lbs	>50 million libe	lbs + 5,000
	Landfill	≤6.75 million ft ³ ≤250,000 yd ³	>6.75 million ft ³ to 675 million ft ³ >250,000 to 25 million yd ³	> 675 million ft ³ > 25 million yd ⁹	$ft^3 + 67,500$ $yd^3 + 2,500$
	Surface impoundment	≤6,750 ft ² ≤250 γσ ³	> 6,750 ft ³ to 675,000 ft ³ > 250 to 25,000 yd ³	> 675,000 ft ³ > 25,000 yd ³	$ft^3 + 67.5$ $yd^3 + 2.5$
0	Drums	≤1,000 drums	>1,000 to 100,000 drums	> 100,000 drums	drums + 10
U M	Tanks and non- drum containers	≤50,000 gallone	gallons + 500		
•	Contaminated soil	≤6.75 million ft ³ ≤250,000 yd ³	>6.75 million ft ³ to 675 million ft ³ >250,000 to 25 million yd ³	> 675 million ft ³ > 25 million yd ³	$ft^3 + 67,500$ $yd^3 + 2,500$
	Pile	≤6,750 ft³ ≤250 yd³	> 6,750 ft ³ to 675,000 ft ³ > 250 to 25,000 yd ²	> 675,000 ft ³ > 25,000 yd ⁹	$ft^3 + 67.5$ $yd^3 + 2.5$
	Landfill	≤340,000 ft ² ≤7.8 acres	>340,000 to 34 million ft ² >7.8 to 780 ecres	>34 million ft ² >780 acres	ft ² + 3,400 acres + 0.078
	Surface impoundment	≤1,300 ft ² ≤0.029 ecres	>1,300 to 130,000 ft ² >0.029 to 2.9 acres	>130,000 ft ² >2.9 scree	$ft^2 + 13$ acres + 0.00029
RE	Contaminated soil	≤3.4 million ft² ≤78 ecres	>3.4 million to 340 million ft ² >78 to 7,800 acres	>340 million ft ² >7,800 scres	ft + 34,000 acres + 0.78
^	Pile*	≤1,300 ft ² ≤0.029 ecres	>1,300 to 130,000 ft ² >0.029 to 2.9 acres	>130,000 ft ³ >2.9 scree	ft ² + 13 acres + 0.00029
	Land treatment	≤27,000 ft ² ≤0.62 scres	>27,000 to 2.7 million ft ² >0.62 to 62 ecres	>2.7 million ft ² >82 scree	ft ³ + 270 acres + 0.0062

¹ ton = 2,000 lbs = 1 yd3 = 4 drums = 200 gallone

PA Table 1b: WC Scores for Multiple Source Sites

WQ Total	WC Score
>0 to 100	18
> 100 to 10,000	32
>10,000	100

Tolker Vision

[.] Use area of fand surface under pile, not surface area of pile.

GROUND WATER PATHWAY GROUND WATER USE DESCRIPTION

Describe Ground Water Use Within 4-miles of the Site:

Provide generalized stratigraphy; information on aquifers, municipal, and or private wells!

The our theory colors of the Colors of the consists of the Colors of the Colo

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selevence 1,34,7,10,14,18,22,9

Land March Company of the State of the Company

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Show calculations of ground water drinking water populations:

providuous, all residents used for druking whiter providuous, all residents use Lake miduagen as their source for druking whiter

Jahrence 1,3,4,9,14

GROUND WATER PATHWAY CRITERIA LIST

Site Name: Converge Control Date:

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release and identifying primary targets. It is expected that not all inclusive; list any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the well that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

			GROUND WATE	R PA	THW	ΙΑΥ	
			SUSPECTED RELEASE				PRIMARY TARGETS
Y		State).		Y	N .	26.350	
	Ð	0	Are sources poorly contained?	0	Ù	O	Is any drinking-water well nearby?
0	0	•	is the source a type likely to contribute to ground water contamination (e.g., wet isgoon)?		0	Ħ	Is any neety drinking-water well closed?
•	0	0	Is waste quantity particularly large?	0	0	具	Has foul-testing or foul-smalling water been reported by any nearby drinking-water users?
•	0	a	Is precipitation heavy and infiltration rate high?	0	.	G	Do any seaty wells have a large drawdown or high production rate?
0	•	۵	Is the site located in an area of karat terrain?	0	. 46	0	Are drinking water wells located between the site and other wells that are suspected to be exposed to hezerdess substances?
	C	ם	Is the subsurface highly permeable or conductive?	0	*	0	Does any circumstantial evidence of ground water or drinking water contamination exist?
	*	O	Is drinking water drawn from a shallow aquifer?	0	1	0	Does any dinking-water well warrant sampling?
0,	3		Are suspected contaminants highly mobile in ground water?	0			Other criteria?
0	*	O	Does any circumstantial evidence of ground water or drinking water contamination exist?	0	Ħ		PRIMARY TARGET(S) IDENTIFIED?
0	•		Other criterie?				
	0		SUSPECTED RELEASE?				
<u> </u>				Щ.			·

Summarize the reponde for suspected the mind of the compact of particularly becomes by his possible	d release lattach an additional page if necessary): I not continued in continued in continued in the second continued that grand continued the continued to the second continued in the second in the second continued in the
Summerize the retionals for Primery's There are avong the water	largets lettech an additional page if necessary): invacy teaches becomes the desirency en them (coke in a large of).

Pathway Characteristics			İ
Do you suspect a release (see Ground Water Pathway Criteria List, page 7)? Is the site located in karst terrain? Depth to aquifer: Distance to the nearest drinking-water well:	Yes Yes	No X No X 2 10 It	
	Α	8	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
SUSPECTED RELEASE: If you suspect a release to ground water (see page 7), assign a score of 550, and use only column A for this pathway.	550	(600 o 348)	ia, 14
2. NO SUSPECTED RELEASE: If you do not suspect a release to ground water, and the site is in karst terrain or the depth to aquifer is 70 feet or less, assign a score of 500; otherwise, assign a score of 340. Use only column 8 for this pathway.			
LR =	55Ú		
TARGETS			
3. PRIMARY TARGET POPULATION: Determine the number of people served by drinking water from wells that you suspect have been exposed to hazardous substances from the site Isee Ground Water Pathway Criteria List, page 7). (2) people x 10 =	0		1,3,9
4. SECONDARY TARGET POPULATION: Determine the number of people served by drinking water from wells that you do NOT suspect have been exposed to hazardous substances from the site, and assign the total population score from PA Table 2.	. 0		
Are any wells part of a blended system? Yes No X _ If yes, attach a page to show apportionment calculations.			
5. NEAREST WELL: If you have identified any Primary Targets for ground water, assign a score of 50; otherwise, assign the highest Nearest Well score from PA Table 2. If no drinking-water wells exist within 4 miles, assign a score of zero.	()	CR.16.6.5.2. # #	1,3,0
6. WELLHEAD PROTECTION AREA (WHPA): Assign a score of 20 if any portion of a designated WHPA is within % mile of the site; assign 5 if from % to 4 miles.	0	(30, 5,	
7. RESOURCES: A score of 5 is assigned.	5	5	
Τ =	. 5		1
WASTE CHARACTERISTICS		•	.
8. A. If you have identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor.	### • 38		
B. If you have NOT identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4.	32	110A.32, or 10g	
wc ·	3,2		
GROUND WATER PATHWAY SCORE: LR x T x WC 82,500	•	07	1

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PA TABLE 2: VALUES FOR SECONDARY GROUND WATER TARGET POPULATIONS

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Population for karst 10 30 100 300 1,000 1,000 30,000 100,0	0/4/4		1,000 20		2	2	2	2	2	\$	2	2		ropusado.
1.633 5.214	from Cita			0,	8	100	8	7,880	3,000	10,000		86.88	000,000	2000
	· × exe			•	7	10	92	62	163	621	1,633	5,214	16,325	
20 1 1 3 8 26 82 261 916 2,807	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		20	-	-	n	2	32	101	323	1,012	3,233	10,121	
Neprest Well — 20 1 1 1 3 8 2 26 82 261 816 2,607			92	-	_	n	•	70	83	261	9.9	2,807	8,162	
Nearest Well - 20 1 1 3 6 20 82 201 016 2,007			6	-		٦	•	70	82	201	•:•	2,607	6,162	
Neprest Well — 20 1 1 3 6 26 20 201 616 2,607 S			2 %		_	n	•	79	2	261	:	2,007	6.102	
Neorest Well -			2		-	~	•	79	82	261	919	2,607	8.162	
			1_] -								Score -	
	Š	arest Well -			9.7.	シア	101 5	() 7.				'	•	
					1111	•								

Provide a Sketch of the Surface Water Migration Route: (include runoff route, probable point of entry, 15-mile target distance limit, intakes, fisheries, and sensitive environments) This chart provides guidelines to assist you in hypothesizing the presence of a suspected release and identying primary targets. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hezardous substances. You may use the section of the chart more than once, depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the target that you feel has the highest probability of being exposed to hezardous substances.

Check the boxes to indicate e "yes", "no", or "unknown" enewer to each question. If you check the "Suspected Release" box as "yes", make sure that you asseign a Likelihood of Release value of 550 for the pathway.

			SURFACE WAT	ER PATHWAY				
			SUSPECTED RELEASE				PRIMARY TARGETS	
Y	•	3{03#3C		*	N			
/	C	0	is surface water rearby?)	Ø	0	Is any target nearby? If yes:	
	5	0	Is waste quantity perticularly large?				(I) Drinking water inteke	
#	C	0	is the drainage area large?				Fishery	
Æ ∙	ū	0	Is precipitation heavy or infiltration rate low?				Sensitive environment	
•	C	0	Are sources poorly contained or prone to runoff or flooding?	0	0	9	Has an intake, fishery, or recreational area been closed?	
0	C	a	is a runoff route well defined (e.g., ditch or channel leading to surface water)?	0	Ħ	0	Is there any circumstantial evidence of surface water contamination at or downstream of a target?	
0	С		is vegetation stressed along the probable runoff path?	0	0		Does any target warrant sampling? If yes:	
0		4	Are suspected conterminents highly persistent in surface weter?	}			☐ Drinking-weter intake	
o	S		Are sediments/water unnaturally discolored?				C Febru	
O	B	0	is wildlife unneturally absent?				Sensitive environment	
o	2		Has deposition of weste into surface water been	0	-		Other criterie?	
			observed?		5		PRIMARY INTAKE(S) IDENTIFIED?	
0	2		is ground water discharge to surface water likely?	0	-		PRIMARY FISHERY IDENTIFIED?	
	准	0	is there any circumstantial evidence of surface water contamination?	0			PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED?	
0	•		Other criteria?			•	•	
運	<u> </u>		SUSPECTED RELEASE?	<u> </u>				

運	<u> </u>	JSPECTED RELEASE?			•	7 .
$ \mathcal{Y} $	27 256676	ndo for sciepocted release lattach an additional ed received rechnology to the stringe that the scripe that th	is too	ence 6	10	
Sum	marize the ratio	nale for Primary Tergets lettach an additional possessions of the Control of the	S CANCAS	yan co	o 61.	n o nsika e ound (ouns).

Commence of the second

Hommonds intokes are approximately a la mile away rate boat fishing in occure regularly on the bake. But since the compounds and analytes present in fly ash atend to be in soluble and can not migrate easily in water the probability of contamination of any intokes and fishing is very little.

reference 6,16,21

NOV 0 6 1990 SURFACE WATER PATHWAY LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT SCORESHEET

Yes X Sood Frequency: After the downstream distance to the nearest drinking-water intake?	
Stance to surface water:	No
Rood Frequency:	ocent.
to an in the downers are distance to the payeest dripting water intelligible.	500 VI
rearest fishery? (18 years) nearest sensitive environment? miles	····

LIKELIHOOO OF RELEASE	Release	Release	References
SUSPECTED RELEASE: If you suspect a release to surface water (see page 11), assign a score of 550, and use only column A for this pathway.	55°		6.18
2. NO SUSPECTED RELEASE: If you do not suspect a release to surface water, and the distance to surface water is 2,500 feet or less, assign a score of 500; otherwise, assign a score from the table below. Use only column B for this pathway.		(500,400,300 er 100)	
Floodplain * Score	· 畫 .		
Size in annual or 10-yr floodplain 500	- 3		
Sate in 100-yr floodplain 400	- 4		
Site in 500-yr floodplain 300			
Since outside 500-yr floodplain 100			
	#4	tead 400'300 ** .edd	
LR =	550		Ì
DRINKING WATER THREAT TARGETS	·		_
3. Determine the water body types, flows (if applicable), and number of people served		* 100 mg	
by all dranking-water intakes within the 15-mile target distance limit. If there are no			
drinking—water intakes within the target distance limit, assign a total Targets score			
of 5 at the bottom of this page (Resources only) and proceed to page 14.	-		
Intake Name Water Body Type Flow People Served		F-18-64	
Sport Chicago Great Lake Not do 3.8 miles			
Hammond intokes Great Lake WIA ds gog 199		7 . 1	0
Whiting whates Great Lake WIN ds Topo	350		1 3 11 13
		Action	1 1 1 1 1 3 1 3
4. PRIMARY TARGET POPULATION: If you suspect any drinking-water intake listed			
above has been exposed to hazardous substances from the site (see Surface Water Pathway Criteria List, page 11), list the intake name(s) and calculate the factor			
score based on the number of people served.	J-1, 1	4	
	و المنظمة		
		2	16,21
people x 10 =		THE REAL PROPERTY.	100
5. SECONDARY TARGET POPULATION: Determine the Secondary Target			
Population score from PA Table 3 based on the populations using drinking-water from intakes that you do NOT suspect have been exposed to hazardous			
substances from the site.		7	
Are any intakes part of a blended system? Yes No	1000		<u> </u>
If yes, attach a page to show apportionment calculations.		1	20
2 feet atmospheric to allow appropriate consequents	MARKET	PARLLE	-30
6. NEAREST INTAKE: If you have identified any Primary Targets for the drinking			1
water threat (Factor 4), assign a score of 50; otherwise, assign the Nearest Intake			1
score from PA Table 3. If no drinking-water intake exists within the 15-mile target			00
distance limit, assign a score of zero.	-	 	80
7. RESOURCES: A score of 5 is assigned.	5	5	1
L	 	 	4
Τ-	2/1		
	L		1

Site Name: Date:

PA TABLE 3: VALUES FOR SECONDARY SURFACE WATER TARGET POPULATIONS

					4 (8) (8) (8)	Beneficial County Intellet Within Flow Catagory	Second Av	Inteline V	Artio Flow	Cetebook	10 M 10 10 10 10 10 10 10 10 10 10 10 10 10		100 miles	
Conduct Water		Noerest				Doreston	2000					100	1000 0001	-
		Intake	,	31	101	è	7.89	1001	10.00	10.00	700.007	3		Providerion
Book riow		7		1	1	1	2	2	2	2	2	2	2	
Characteristics		Choose	2 8	£ §	2 9	900	3,000	20,000	30,000	100,000	300,000	300,000 1,000,000 3,000,000	3,000,000	Verte
(500 PA TANO 4)	Lopinston	No. of the last	,	,	:	:	3	833	1.632	8.214	16.325	52,136 163,246	163,246	
A 10 ede		2	N	p	•	7	}	;						
10 to 100 of		เคุ	-	-	7	v	9	82	163	821	1,633	6,214	16,325	
2 100 to 1 000 of a		-	•	•	-		ĸ	1 0	ě	62	163	621	1,633	
		c	o	•	•	•	-	-	n	•	•	82	163	
> 1,000 to 10,000 ste er	H-COO'F	. 6	•	•	•	•	•	0	-	-	~	w	(2)	9
Orset Letes) ,	-	ď	•	26	22	201		2,607	8 ,162	26,068	81,663	
S-male Mixing Cone		2	-											1/2
Neens	Nearest Intake -	0										V)	Score = [ટ્રાં ડ્રાં

PA TABLE 4: SURFACE WATER TYPE / FLOW CHARACTERISTICS WITH DILUTION WEIGHTS FOR SECONDARY SURFACE WATER SENSITIVE ENVIRONMENTS

	Water Rody Type	Were Body Type of Surface Matter Body. Were Body Type	Daution Weight
Park S	minimal stream office to medicate stream residence to large stream left large stream to fruer left and stream	flow less than 10 ofs flow 10 to 100 ofs flow greater than 1,000 to 10,000 ofs flow greater than 1,000 to 10,000 ofs flow greater than 10,000 ofs	7 0.7 N/A N/A
٠ ج ۾	quiet flowing streams or rivers	flow 10 cfs or greater	N/A
	in coastal tidal water (harbora, frigues), coast, account, baye, etc.), coast,	YIN	N/A

SURFACE WATER PATHWAY (continued) HUMAN FOOD CHAIN THREAT SCORESHEET

				A	В	
LIKELIHOOD OF R	ELEASE			Suspected Release	No Suspected Release	Reference
Enter the Surface Wat	er Likelihood of Release s	core from page 12.	LR =	550	(600,400,300 as 140g)	6,18
HUMAN FOOD CH	IAIN THREAT TARGE	TS				
the 15-mile targe	ater body types and flows It distance limit. If there a sign a Targets score of O 15.	are no fisheries within th	e target			
Fishery Name		Water Body Type	Flow		3.0	
	ichigan Risec	Guest Lave	10/14 cfscfs			
Lake Co	denet		will cfs		15.46	
Lake Ge	2748	·	With cis			
12017	CKE.		IVI A cis			3.7
to hazardous sut	RIES: If you suspect any ostances from the site (see a 300 and do not evaluate	e Surface Water Criteria	List, page 11),	DOX 4		16,5
				24.36.12 o 6	DH.30.12.=4	
assign a Second	SHERIES: If you have not ary Fisheries score from t ithin the 15-mile target di	he table below using the stance limit.	LOWEST flow			
	عام فارد فراجه افتا افتاكنا المستحدد ويستجه بالمستحدد والمستحد	Secondary Fisheries S	core 🎉		•	
	< 10 cfs	210		1/2	I	
	> 100 cfs, coastal	30			1	
	tidal waters, oceans,	(12)	l		i	1
	or Great Lakes					X.C
			Τ-	DIAMETER &	DAMAGE.	1
	•		•	L		J

SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT SCORESHEET

				Sespected	No Suspected	
(ELIHOOD OF RELE	ASE			Misese	Release	Reference
er the Surface Water L	ikelihood of Release	score from page 12.	LR =	550	(\$600,400,300 æ 1000)	6,18
VIRONMENTAL TH	REAT TARGETS					
sensitive environment and 51. If there are r	its within the 15-mile no sensitive environm	es (if applicable) for all surface of target distance limit (see PA intention within the 15-mile target outloom of this page, and procee	Tables 4 distance			
Environment Name		Water Body Type F	7ow			
	àn Egrett		1+ cls		441 T.	
. ——————	ich Contract				1.3	
- 27 Kind > C	Con CON	TOP				
			cfs		£ 10.00	
			cfs			
			cfs	23.7		(),
			'			10,5
. SECONDARY SENS	ITIVE ENVIRONMENT	rs:			1	
-		ts on surface water bodies with ows, and do not evaluate part (
Flow	Dilution Weight (PA Table 4)	Environment Type and Value (PA Tables 5 and 6)	Total			
cfs		x	_			•
cfs		x	-			1
cfs		x	_			1
cfs	 	x				1
cls		X CANADA	- 3		153	
	- 2		Sun			
			7 T.	Med	21000	1
		ents are located on surface wa	ter bodies	4		1
with flows of 1	00 cfs or less, assign	n a score of 1U.				1
					7.25	1
			Т.	 (大)	':	1

PA TABLE 5: SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES

Sensitive Environment	Assigned Value
Critical habitat for Federally designated endangered or threatened species	100
Marine Senctuary	
Vational Park	
Designated Federal Wilderness Area	
cologically important areas identified under the Coastal Zone Wilderness Act	
Sensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water A	ct
Critical Areas Identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire arnall lake	(06)
Vetional Monument	
National Seashore Recreation Area	
National Lakeshore Recreation Area	
Habitat known to be used by Federally designated or proposed endangered or threatened species	75
National Preserve	
National or State Wildlife Refuge	
Unit of Coestel Berrier Resources System	
Federal land designated for the protection of natural ecosystems	
Administratively Proposed Federal Wildemess Area	
Spawning areas critical for the maintenance of fish/shellfish species within a river system, bay or estuary	
Migratory pathways and feeding areas critical for the maintenance of anadromous fish species in a aver system	
Terrestrial areas utilized by large or dense aggregations of vertebrate animals (semi-equatic foregard for breeding	•
National river reach designated as recreational	
Habitet known to be used by State designated endangered or threatened species	50
Habitat known to be used by a species under review as to its Federal endangered or threatened status	
Coastal Barrier (partially developed)	
Federally designated Scenic or Wild River	
State land designated for wildlife or game management	25
State designated Scenic or Wild River	
State designated Natural Area	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	
State designated areas for the protection/maintenance of equatic life under the Clean Water Act	5
See PA Table 6 (Surf	ace Water Pathway
Wedends o	•
PA Table 9 U	Air Pathwayl

PA TABLE 6: SURFACE WATER WETLANDS FRONTAGE VALUES

Total Langth of Wellands	Assigned Value
Less than 0.1 mile Care	0 (49)
0.1 to 1 mile	25
Greater than 1 to 2 miles	50 🛬 📑
Greeter then 2 to 3 miles	75
Greater then 3 to 4 miles	100
Greater then 4 to 8 miles	150
Greater than 8 to 12 miles	250
Greater than 12 to 16 miles	350
Greater then 16 to 20 miles	450
Greater than 20 miles	500

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SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

	A	B
WASTE CHARACTERISTICS	Suspected Release	No Suspected Release
14. A. If you have identified ANY Primary Targets for surface water (pages 12, 14, or 15), assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor.	ings = 12	
B. If you have NOT identified any Primary Targets for surface water, assign the waste characteristics score calculated on page 4.	32	(1991,32), or 100
wc =	3),	

SURFACE WATER PATHWAY THREAT SCORES

Threat	Likelihood of Release (LR) Score (from page 12)	Targets (T) Score	Pathway Weste Characteristics (WC) Score (determined above)	Threat Score LR x,T x WC /82,500
Drinking Water	550	2١	33	4.48
Human Food Chain	550	12	33	2.5k
Environmental	5 SD	\bigcirc	33	

SURFACE WATER PATHWAY SCORE (Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

7.04

Sita Name: Date:

This chart provides guidelines to assist you in hypothesizing the presence of a resident population. It is expected that not all of this information will be available during the PA. Also, these criteria are not aff-inclusive; list any other criteria you use to hypothesize resident populations. This chart will record your professional judgment in evaluating this factor.

Use the resident population section to guide you through evaluation of some site and source conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of nearby people you feel may be considered part of a resident population. Record the responses for the resident population target that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" enswer to each question.

 SOIL EXPOSUR	E PA	THW	ΑΥ		
SUSPECTED CONTAMINATION	RESIDENT POPULATION				
	Y .	N	34.3.F3C		
Surficial contamination is assumed.		*	۵	Are there residences, schools, or day care facilities on or within 200 feet of areas of suspected contermination?	
	0	, D	#	Are residences, schools, or day care facilities located on adjacent land previously owned or leased by the site owner/operator?	
	٥	Ä	۵	Is there an overland migration route that might spread hazardous substances near residences, schools, or day care facilities?	
	۵	0	•	Are there any reports of adverse health effects from ensite or adjacent residents or students, exclusive of apparent drinking water or air contamination problems?	
	0	0	淟	Does any efficite property warrant sampling?	
		•		Other citarie?	
	0			RESIDENT POPULATION IDENTIFIED?	

Summerize the rationale for resident population (attach an additional page if necessary):
The Connorwedth, Edward plant is bordered
the tracker by the many forth, and dec the
prost on the west side. There are of the
pront on the west side. There is the services the services the there is the top the the top the the top the the top th
or servous withing 200 (ee)
Suspected Control Ment And
no resident population identified.
Colone Call

LE x T x WC

 $(\mathcal{O}, \mathcal{O})^{-1}$

RESIDENT POPULATION THREAT SCORE:

NEARBY POPULATION THREAT SCORE:

SOIL EXPOSURE PATHWAY SCORE:

Resident Population Threat + Nearby Population Threat

Assign a score of 2



NOV 06 1990

PA TABLE 7: SOIL EXPOSURE PATHWAY TERRESTRIAL SENSITIVE ENVIRONMENT VALUES

Terrestrial Sensitive Environment	Assigned Value
Terrestrial critical habitat for Federally designated endangered or threatened species	100
National Park	
Designated Federal Wilderness Area	
National Monument	
Terrestrial habitast known to be used by Federally designated or proposed threatened or endangered species	75
National Preserve (terrestrial)	
National or State terrestrial Wildlife Refuge	
Federal land designated for protection of natural ecosystems	
Administratively proposed Federal Wilderness Area	
Terrestrial areas utilized by large or dense aggregations of animals (vertebrate species) for breeding	
Terrestrial habitant used by State designated endangered or threatened species	50
Terrestrial habitat used by species under review for Federally designated endangered or threatened status	·
State lands designated for wildlife or game management	25
State designated Natural Areas	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	

Table 7 is not

AIR PATHWAY CHITEHIA LIST

Site Name: Commonwer of Property Date: South City

This chart provides guidelines to essist you in hypothesizing the presence of a suspected release. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release. This chart will record your professional judgment in evaluating this factor.

The "Suspected Release" section of the chart guides you through evaluation of some conditions to help hypothesize whether a release from the site is likely. For the Air Pathway, if a release is suspected, "Primary Targets" are any residents, workers, students, or sensitive environments within X mile of the site.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make sum that you assign a Likelihood of Release value of 550 for the pathway.

			AIR PATI	HWAY
		•	SUSPECTED RELEASE -	PRIMARY TARGETS
¥ •	# ·	34.3436		
0	0	#	Have odors been reported?	If you suspect a release to air, evaluate all populations and sensitive environments within % mile fincluding those onsitel as Primary Targets.
۵	0	•	Has a release of hazardous substances to the air been directly observed?	
0	0		Are there any reports of adverse health effects (e.g., headaches, neuses, dizziness) potentially resulting from migration of hezardous substances through the air?	
À	٥	0	Is there any circumstantial evidence of an air release?	
o.	6		Other criteria?	
**	0		SUSPECTED RELEASE?	

Summarize the rationale for suspected release (at	ttach an additional page if necessary):
Since the thy	con is not contained in any
monnee it is likely	Hack on those His obser byles
can get count up	's year our down blown orders.
	·
	and the second
·	
	reforence 6;

Do you suspect a release (see Air Pathway Criteria List, page 21)? Distance to the nearest individual:		X NO_	
	A	В	I
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Reference
1. SUSPECTED RELEASE: If you suspect a release to air (see page 21), assign a score of 550, and use only column A for this pathway.	<i>5</i> 50	į	_lo
2. NO SUSPECTED RELEASE: If you do not suspect a release to air, assign a score of 500, and use only column B for this pathway.		1	
- LR =	550		
TARGETS			1
3. PRIMARY TARGET POPULATION: Determine the number of people subject to exposure from a release of hazardous substances through the air (see Air Pathway Criteria List, page 21).	ZJWO	*	_5
 SECONDARY TARGET POPULATION: Determine the number of people within the 4-mile target distance limit, and assign the total population score from PA Table 8. 	258		<u>. 12</u> 1
5. NEAREST INDIVIDUAL: If you have identified any Primary Targets for the air pathway, assign a score of 50; otherwise, assign the highest Nearest Individual score from PA Table 8.	50	(20,7,2,1, er 4)	/
6. PRIMARY SENSITIVE ENVIRONMENTS: Sum the sensitive environment values (PA Table 5) and wetland acreage values (PA Table 9) for environments subject to exposure from air hazardous substances (see Air Pathway Criteria List, page 21).		20.0	
Sensitive Emironment Type Value Sum =	0	en sage	·
7. SECONDARY SENSITIVE ENVIRONMENTS: Use PA Table 10 to determine the score for secondary sensitive environments.	0		
8. RESOURCES: A score of 5 is assigned.	5	5	
Τ=	23313	·]
WASTE CHARACTERISTICS	I M-H	200000 200000 200000	a
 A. If you have identified any Primary Targets for the air pathway, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor. 	(65)		Eccess as a
B. If you have NOT identified any Primary Targets for the air pathway, assign the waste characteristics score calculated on page 4.		Anna Paris	
wc -	2.2].
AIR PATHWAY SCORE: LR x T x WC	finding to	\bigcirc]

Site Name: Date:

PA TABLE 8: VALUES FOR SECONDARY AIR TARGET POPULATIONS

				-	1.11	1	matelon	MINN DIE	Constallon Within Distance Calebory	,,,					
		freshattered			1	è	201	1,00,1	1001	10,001	30,001	100,001	100,001 300,001	<u>z</u> .	
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free She	Powderkon	Mohest/	2	8	780	300	1,000	3,000	10,000	30,000	100,000		1,000,000	300,000 1,000,000 3,000,000	2
Orași de	33.00	30	-	~		10	62	(191)	621	1,633	6,214	16,326	62,136	163,246	
	o	2	-	_	-	•	13) =	130	9	1,303	4,001	13.034	10,01	4
	4654		•	•	-		n	•	(32)	8	282	882	2,815	8,815	F C
	15849		•	• •	•	<u>_</u>	-) •	20	6	201	134	2.612	9.1
	40535		• •	•	•	•	-	•	n)•	(11)	23	266	633	j (t.)
> 2 to 3 miles	67754	•	۰	•	•	•	-	-	-	*	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	:	120	376	(t)
> 2 to 4 miles	78617	•	•	•	0	•	0	-	ı	(z)	,	23	73	229	6
Neerest	Nearest Individuel -												•	Score -	258
			_												

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PA TABLE 10: DISTANCE WEIGHTS AND CALCULATIONS	FOR AIR PATHWAY SECONDARY SENSITIVE ENVIRONMENTS
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PA TABLE 9: AIR PATHWAY VALUES FOR WETLAND AREA

25 Onelte) (1) (1) (1) (1) (1) (1) (1) (1	01.0		
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	- T- 1/1-0	0.0		
			*	
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	1/4-1/2mi 0.0054	0.0054	*	
			*	
			*	

Greater then 100 to 180 series Greater then 200 to 200 series Greater then 200 to 200 series Greater then 200 to 200 series

Greeter than 50 to 100 sores

Less than 1 sors 1 to 80 serse Total Environments Score -

THE SCORE CALOUS THE	S	S ²
GROUND WATER PATHWAY SCORE (S,,):	1.07	1.1649
SURFACE WATER PATHWAY SCORE (S,):	7.04	49.5616
SOIL EXPOSURE PATHWAY SCORE (S,):	10.27	39.3129
AIR PATHWAY SCORE (S.):	700	10,000
SITE SCORE:	$\sqrt{\frac{S_{gv}^2 + S_{sv}^2 + S_{so}^2 + S_{a}^2}{4}} =$	50.2

Control of the Contro

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н,		e sr	 		-			

FTT recommends that the conversation of the process of the sources of the process of the process of the major trong and maken medium process.

SUMMARY

	•	YES	NO
1.	Is there a high possibility of a threat to nearby drinking water wells by migration of hazardous substances in ground water?	0	ø
	A. If yes, identify the wells recommended for sampling during the SI.		
	B. If yes, how many people are served by these threatened wells?		
2.	Are any of the following suspected to have been exposed to hazardous substances through surface water migration from the site?		
	A. Drinking water intake	0	5 5
	8. Fishery	0	•
	C. Sensitive environment: wetland, critical habitat, others	o	¥
	D. If yes, identify the targets recommended for sampling during the SI.		
2	Do people reside or attend school or day care on or within 200 ft of any area of suspected	n	`**
.	contamination?		•
4	Are there public health concerns at this site that are not addressed by PA scoring considerations? If yes, explain:	٥	•
	•	j	
]	

prof.A	DESCRIPTION OF REFERENCE
1	Blothenka steel may 30,91 whiting
	Entration Plant; contacted by
	Macy Tresony of Foology and
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134	Beautentuca, Tong. June 24,91.
	Hammond Water Works, confected by
	Chas Zien of Ecology and
	Thursday.
3	Brosek Ken May 13 91 11 P Deduction
	Cary Hobart water co, nontacted by
	Termelle Marcereau of Earling and
	Each mineral.
1	1 Clast, Bouglass and Larrison D.
	editale. 1980. Governor's writer
	Resource study Commission, State of
	Indiana. The Indiana wider Macone
	Availability Users and Weeds.

14.4	DESCRIPTION OF REFERENCE
	Commonwear Hill Lasin Industrial
	Relations. July 12. 11. contracted by Kathy Bell of Foology and Fruitemirent.
<u>(e</u> .	Luclusy and binvironment Drive-by- icy Book, June 4, 91. Attendants: Julie Uisser and Sally I mes.
	7 Indiana Department of Conservation. 1952. Investigation of Indiana's. Lakes and Streams. Indiana. Oniversity Department of Zoology.
	8 Indiana State Proposit of Health. February 27.86. Ceneralor connect report. Thomas F. Henninger, Director of Water Quality.

	1 and the second concrete
9	Dezuit, Rich: June 12,91. Gary-
	Lorp: Contracted
	by Chais Zien of Ecology and
	Envisonment.
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10	M. tchell m. and Perry J., McGrain
	I. June 1951. Indianas water
	Resources - March Source
11	Modernie Ki Dali Til a c
	Modrowski Ast. July 2,91. East
	Chicago Water Department.
	Contacted by Chris Zien of Ecology
	and Environment.
12	· M
	Musgrave, Bosts. June 26 al.
	People's Water Company, Hammond
	Their Controcted by Chair Zien
	of Ecology and Environment.

	DESCRIPTION OF REFERENCE
13	Ortegon, Warie. June 24, 11.
	Hammond water works contacted
;	by Chins Zien of Eadlogy and
	Environment.
	`
14	Regional Planning Commission
	Lake and Poster Co. 1970 Water
	Besources Inventory
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	ecostacted by Toda Ramalin
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	otilization: Hy Ash Battorn Hsh,
	and slag, Noves toola Confer
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	DESCRIPTION OF REFERENCE
1-7	U.S. Department of the Interior
	Wovember 6, 1697: First and Wildlite
	Secure Produced Species unt for
	region V Tion cities, rimnerata.
18	U.S. Department of Interior
	Geological Survey of Lake Co. 1953.
	Bulletin St, Plate 3.
1	Hézardous Waste Site Prolymary
	Assessment for the Commencecity
	Edison Site, O.S. PA TO: Thisore
	364507 Prepared by Betweek J.
_	Hestin.
	DUS G.S. Topographie maps. Lake
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L	photorevised 1973. To move series

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FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Commonweath Edison PAGE

PAN: FINO739PA U.S. EPA ID: INDOIG364507 TDD: F05-9104-055

DATE: 6-4-91

TIME: 1200

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: ;

Sunny

PHOTOGRAPHED BY:

VISSEY

SAMPLE ID (if applicable): NIA

DESCRIPTION: Commonwealth Edison taken from a

park across lake Michigan

DATE: 6-4-91

TIME: 1205

DIRECTION OF PHOTOGRAPH:

NW

VEATHER CONDITIONS:

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): NIA

DESCRIPTION:

Entrance gate with quard



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Commonweath Edison

PAGE 2 OF 4

U.S. EPA ID: INDO16364507 TOD: F05-9104-055 PAN: FINO739PA

DATE: 6-4-91

TIME: 1235

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:;

~75°F

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): N/A

DESCRIPTION:

side street & railroad tracks

on-site inside fence.

DATE: 6-4-91

TIME: 1240

DIRECTION OF PHOTOGRAPH:

VEATHER CONDITIONS:

~75°F

PHOTOGRAPHED BY:

SAMPLE ID (if applicable):

DESCRIPTION:



piles of coal or fly ash on-site

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: commonwealth Edison

PAGE 3 OF 4

U.S. EPA ID: 1ND016364507 TDD: F05-9104-055 PAN: FINOT39PA



DATE: 6-4-91 TIME: 1245 WEATHER CONDITIONS: DIRECTION OF PHOTOGRAPH: NINE PHOTOGRAPHED BY: SAMPLE ID (if applicable): Visser

southeast corner of six

DESCRIPTION:

FIELD PHOTOGRAPHT LOG SHEET SITE NAME: Commonwealth Edison 4 OF L PAGE U.S. EPA ID: ND016364507TDD: F05-9104-055 PAN: FINO739PA DATE: 6-4-91 TIME: 1250 DIRECTION OF PHOTOGRAPH: N WEATHER CONDITIONS: Sunny ~M5°F PHOTOGRAPHED BY: Visser SAMPLE ID

DESCRIPTION:

(if applicable):

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SDMS US EPA Region V

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SDMS	Specify Type of Document(s) / Comments: